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Adaptive Shadow Testing for **Ray Tracing**
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Ray Tracing: Graphics for the Masses
A practical introduction to **ray tracing** 3D graphics for readers not familiar with ... After all, any given **ray** can bounce around the **room** many times before ...
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fundamental differences **between** raster and **ray-tracing**. approaches. Because **ray tracing** takes a ... In this particular **room** there are three lights. The full ...
developer.intel.com/technology/itj/2005/volume09issue02/art01_**ray_tracing**/vol09_art01.pdf - Similar pages

Institute for Telecommunication Sciences - 2001 Technical Progress ...
Calculated impulse response estimates from both **ray-tracing** and the simple model. ... anechoic chamber, and analyzing the coupling mechanisms **between rooms**. ...
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The **ray tracing** system is interactive in part because it runs on a ... In Figure 4 we show the scalability for the **room** scene shown in. Figure 16. ...
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Modeling diffraction in the **ray-tracing** method. Most of **room** acoustic ... Table 5.1: Difference in **Room** 2a **between** modeled SPL by dBWorks and by ODEON ...
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Effect of Fire Stops on **Sound** Isolation **between** Dwellings ... The **path** the **sound** took was from the "source" **room** subfloor to the "receive" **room** subfloor, ...
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There are 2*8=16 possible connection **paths between** each microphone and each loudspeaker, ... Below the balcony the **improvement** in **sound** quality is dramatic. ...
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With these **improvements**, the music presentation simply becomes more life-like and believable ... For those who have a larger **room**, we **recommend** a vented box ...
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Sounds of silence Keeping the privacy in an open-environment ...
If the screens are doing their job, the primary **sound path** will be only ceiling ... an electronic **sound**-masking system to **simulate** the HVAC system noise. ...
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HEAD acoustics - News - DAGA 2003, List of lectures
Door Operating **Sound Improvement** Based On Jury Testing And. System Analysis ... The methods distinguish **between** airborne and structure-borne **sound paths**. ...
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Mixer: Multiple sources and multiple signals can be included in one. **simulation**. Processing: Convolution of **sound** files with BRIRs (Binaural **Room** ...
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Variability of low frequency **sound** transmission measurements—[The ...
A detailed model of the **sound** transmission **between** the two **rooms** is developed ... the effects of the **simulation** in the receiving **room** are also investigated. ...
dx.doi.org/doi:10.1121/1.1738452 - Similar pages

[PDF] 1981 Winter **Simulation** Conference Proceedings T.I. ren, C.M. ...
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was developed to **simulate** an antisubmarine warfare engagement **between** surface escorts ... In certain situations, the **sound path** can bend and ...
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TIE FIGHTER from LucasArts
486 +2MB EMS Control: Joystick (**recommended**), Mouse **Sound**: **Sound** Blaster, **Sound** Blaster Pro, ... Doors lead to the film **room**, tech **room**, training **simulator**, ...
www.ibiblio.org/GameBytes/issue21/editor/tierev.html - 19k - Cached - Similar pages

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CDs FROM 01 SEP 2004 UP TO 16 DEC 2004, - alt.hackintosh - Dec 17, 2004
[FanFic] Phoenix Redux 1: Sicilian Opening - rec.arts.anime.creative - Dec 7, 1998
BUILD FAQ v1.5 - alt.games.duke3d - Feb 7, 1997

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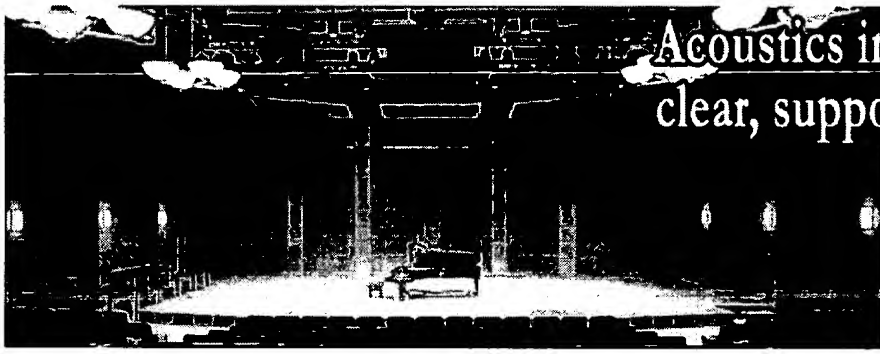

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Acoustical Modeling

I've used acoustical modeling for years in my practice, starting out with physical models, investigated with light and sound. For the last six years or so, I have been using the computer-modeling program EASE. Modeling is a powerful tool, increasingly powerful. But like all tools, it has its limitations.

Here is a (pre-digital) photo of a model using light, as well as sound waves to model the inside of an auditorium. (Click to see enlarged versions of all the graphics.)

H.S. Auditorium looking from stage to audience

Models serve several purposes:

- The process of building a three dimensional model of a room, gives me hands-on understanding of the room beyond what I get from looking at drawings.
- I use models for acoustical calculations, such as reverberation time, clarity, speech intelligibility, noise levels and loudspeaker coverage.
- Models allow me to visually inspect how sound behaves in the room, using ray tracing.
- Using auralization, I can listen to how model sound behaves in the model room.

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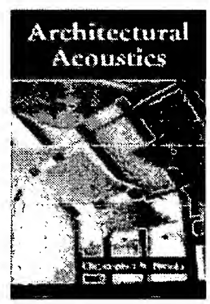
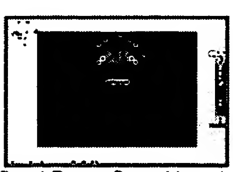


Architectural acoustics consultant and orchestral musician Brooks describes the fundamentals of acoustics and the factors to be considered when constructing a room or building with good sound quality. Aimed at practicing architects and the interested lay reader, the guide covers topics such as... Read More...

All of these tools allow me to experiment with and compare options as I try to work out the best approach for each individual project.



Band Room Sound Levels

Loudspeaker Coverage in an Auditorium

Ray Tracing

Auralization

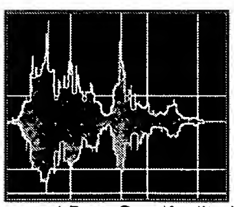
The ultimate goal of acoustical modeling is to model sound in the room so that you can hear it. A computer model can't really allow you to hear how the finished room will actually sound. It is, after all, a model; and there are many differences between real sound and modeled sound.

- Real sounds are pressure waves in air. Sound is modeled as rays or mirrored sources.
- Real sound bends around objects (diffraction). Work is being done on diffraction, but it is not fully incorporated into practice.
- Real surfaces diffuse and scatter sound. Although scattering is included in the model, data on scattering is scarce.
- Real sources have dimensions. Model sources are points. A real orchestra, for instance, is spread out over a large plane and comprises many instruments, each with its particular directionality, and each moving around as it is being played. Model sources are directional, but they don't move about as real sound sources do.

Physical scale models have fewer of these limitations since they use real sound. However, physical models are vastly more expensive to build and test than computer models.

The limitations on computer modeling are being stretched by researchers in what is perhaps the hottest field in architectural acoustics. Of course the most that anyone can wish for would be an equivalence between modeled sound and a recording of sound in a real space. That would be amazing, but of course nothing can compare with listening to real performers in a real space.

Isn't that why we build them?


Lakewood Prep Gym/Auditorium


Calvary UMC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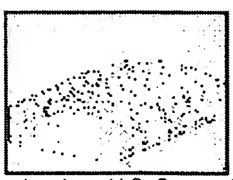
First Baptist, Newport News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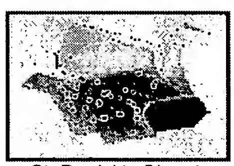
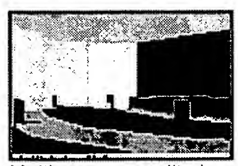
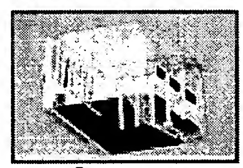

St. Patrick's Church


Multi-purpose auditorium


Synagogue

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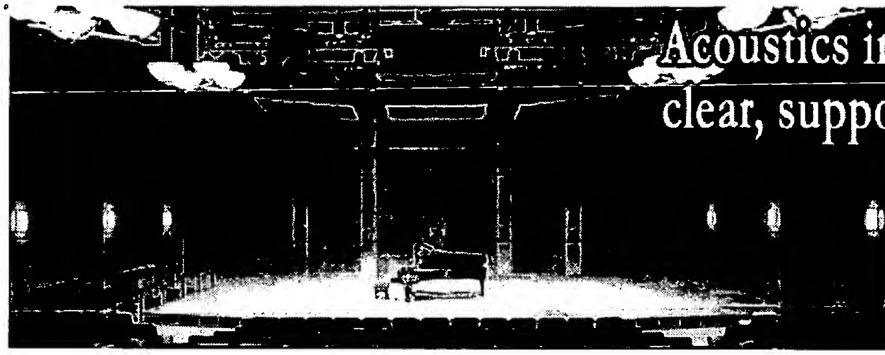

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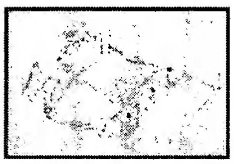

Watchung H.S. Auditorium

Ray Tracing

Another use of acoustical models is to study the behavior of sound in rooms using three-dimensional ray tracing. The model generates a series of rays from the sound sources. One can see how sound propagates in the room, reflecting off surfaces as it travels from source to receiver.

Here are rays illustrating sound waves moving through an auditorium. This illustration shows only the first several rays. After a very short time, the entire room is an impenetrable mess of sound rays. This technique is fascinating, but takes a lot of practice to make any sense of.

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S1 260 SELECT ((AURALIS? OR AURALIZ?) AND ((ACOUSTIC? OR SOUND? OR NOISE)(3N)(MODEL? OR SIMULAT?))) NOT PY>2000
S2 146 RD (unique items)
S3 42 S S2 AND (SOLUTION? OR SUGGEST? OR RECOMMEND? OR SOLVE? OR SOLVING OR OPTIMIZ? OR OPTIMIS?)
kwic S4 22 S S3 AND (PATH? OR PROPAGAT? OR RAY? OR TRACE? OR TRACING?)
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[File 2] **INSPEC** 1898-2007/Feb W4

[File 6] **NTIS** 1964-2007/Mar W1

[File 8] **Ei Compendex(R)** 1884-2007/Feb W4

[File 9] **Business & Industry(R)** Jul/1994-2007/Mar 09

[File 13] **BAMP** 2007/Feb W4

[File 15] **ABI/Inform(R)** 1971-2007/Mar 09

[File 16] **Gale Group PROMT(R)** 1990-2007/Mar 08

[File 20] **Dialog Global Reporter** 1997-2007/Mar 09

[File 24] **CSA Life Sciences Abstracts** 1966-2007/Nov

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2007/Mar W1

[File 35] **Dissertation Abs Online** 1861-2007/Feb

[File 41] **Pollution Abstracts** 1966-2007/Nov

[File 45] **EMCare** 2007/Mar W1

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Feb 28

SMD

[File 56] **Computer and Information Systems Abstracts** 1966-2007/Feb

[File 57] **Electronics & Communications Abstracts** 1966-2007/Feb

[File 61] **Civil Engineering Abstracts.** 1966-2007/Feb

[File 62] **SPIN(R)** 1975-2007/Feb W3

[File 64] **Environmental Engineering Abstracts** 1966-2007/Feb

[File 65] **Inside Conferences** 1993-2007/Mar 07

[File 73] **EMBASE** 1974-2007/Mar 09

[File 88] **Gale Group Business A.R.T.S.** 1976-2007/Mar 06

[File 94] **JICST-EPlus** 1985-2007/Mar W2

**File 94: JICST will be removed from all vendors on March 31, 2007. Please contact the Knowledge Center for alternative files.*

[File 95] **TEME-Technology & Management** 1989-2007/Mar W1

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Feb

[File 104] **AeroBase** 1999-2007/Feb

[File 113] **European R&D Database** 1997

**File 113: This file is closed (no updates)*

[File 118] **ICONDA-Intl Construction** 1976-2007/Jan

[File 136] **BioEngineering Abstracts** 1966-2007/Nov

[File 144] **Pascal** 1973-2007/Feb W4

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Feb 28

[File 156] **ToxFile** 1965-2007/Mar W1

[File 262] **CBCA Fulltext** 1982-2007/Mar 06

[File 324] **German Patents Fulltext** 1967-200709

**File 324: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWS IPCR.*

[File 340] **CLAIMS(R)/US Patent** 1950-07/Feb 22

**File 340: The 2006 reload is online as of December 1, 2006. IPCR/8 is available.*

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070308UT=20070301

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[File 420] **UnCover** 1988-2001/May 31

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[File 435] **Art Abstracts** 1984-2007/Feb

[File 440] **Current Contents Search(R)** 1990-2007/Mar 09

[File 471] **New York Times Fulltext** 1980-2007/Mar 09

[File 484] **Periodical Abs Plustext** 1986-2007/Feb W3

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Mar 08

[File 654] **US Pat.Full.** 1976-2007/Mar 07

**File 654: IPCR/8 classification codes now searchable in 2006 records. For information about IC= index changes,*

see HELP NEWSIPCR.

[File 765] **Frost & Sullivan** 1992-1999/Apr

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[File 996] **NewsRoom 2000-2001**

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S1 276 SELECT ((ACOUSTIC?(2N)LABORATOR???) AND ((SOUND OR NOISE)(2N)(CONTROL? OR ABATE?))) NOT PY>2000
S2 228 RD (unique items)
S3 50 S S2 AND (SOFTWARE OR COMPUTER?)
S4 13 S S3 AND (PATH? ?)
; show files

[File 2] **INSPEC** 1898-2007/Jan W2

[File 6] **NTIS** 1964-2007/Jan W3

[File 8] **Ei Compendex(R)** 1884-2007/Jan W1

**File 8: The file has been reprocessed and accession numbers have changed. See HELP NEWS988 for details.*

[File 10] **AGRICOLA** 70-2007/Jan

[File 11] **PsycINFO(R)** 1887-2007/Jan W2

[File 14] **Mechanical and Transport Engineer Abstract** 1966-2006/Dec

[File 15] **ABI/Inform(R)** 1971-2007/Jan 22

[File 16] **Gale Group PROMT(R)** 1990-2007/Jan 19

[File 19] **Chem.Industry Notes** 1974-2007/ISS 200703

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[File 20] **Dialog Global Reporter** 1997-2007/Jan 22

[File 24] **CSA Life Sciences Abstracts** 1966-2007/Nov

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2007/Jan W2

[File 35] **Dissertation Abs Online** 1861-2006/Nov

[File 40] **Enviroline(R)** 1975-2007/Dec

[File 41] **Pollution Abstracts** 1966-2007/Nov

[File 45] **EMCare** 2007/Jan W2

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Jan 12

[File 50] **CAB Abstracts** 1972-2007/Dec

[File 61] **Civil Engineering Abstracts.** 1966-2006/Dec

[File 62] **SPIN(R)** 1975-2007/Jan W1

[File 63] **Transport Res(TRIS)** 1970-2007/Dec

[File 64] **Environmental Engineering Abstracts** 1966-2006/Dec

[File 65] **Inside Conferences** 1993-2007/Jan 22

[File 66] **GPO Mon. Cat.** 1978-2006/Dec

**File 66: This file is now current and is updating regularly.*

[File 73] **EMBASE** 1974-2007/Jan 17

**File 73: Elsevier will not provide the daily update to Embase . on January 18. Tomorrow's update will contain both days.*

[File 80] **TGG Aerospace/Def.Mkts(R)** 1982-2007/Jan 19

[File 88] **Gale Group Business A.R.T.S.** 1976-2007/Jan 19

[File 94] **JICST-EPlus** 1985-2007/Jan W3

**File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.*

[File 95] **TEME-Technology & Management** 1989-2007/Jan W2

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Dec

[File 103] **Energy SciTec** 1974-2007/Jan B1

**File 103: For access restrictions see Help Restrict.*

[File 104] **AeroBase** 1999-2007/Jan

[File 113] **European R&D Database** 1997

**File 113: This file is closed (no updates)*

[File 115] **Research Centers & Services** 1994-2006/Nov

[File 118] **ICONDA-Intl Construction** 1976-2006/Dec

[File 144] **Pascal** 1973-2007/Jan W2

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jan 12

[File 149] **TGG Health&Wellness DB(SM)** 1976-2007/Jan W1

[File 156] **ToxFile** 1965-2006/Nov W1

**File 156: ToxFile has stopped updating with MEDLINE records. Please see HELP NEWS 154 for details.*

[File 160] **Gale Group PROMT(R)** 1972-1989

[File 180] **Federal Register** 1985-2007/Jan 19

[File 194] **FBODaily** 1982/Dec-2006/Oct

[File 213] **ONTAP(R) INSPEC**

[File 262] **CBCA Fulltext** 1982-2007/Jan 15

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jan 19

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070118UT=20070111

**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 388] **PEDS: Defense Program Summaries** 1999/May

**File 388: This file is closed.*

[File 426] **LCMARC-Books** 1968-2007/Jan W2

[File 440] **Current Contents Search(R)** 1990-2007/Jan 22

[File 471] **New York Times Fulltext** 1980-2007/Jan 22

[File 484] **Periodical Abs Plustext** 1986-2007/Jan W2

[File 535] **Thomas Register Online(R)** -2006/Q2

[File 541] **SEC Online(TM) Annual Repts** 1997/Sep W3

**File 541: This file is closed.*

[File 542] **SEC Online(TM) 10-K Reports** 1997/Sep W3

**File 542: This file is closed.*

[File 545] **Investext(R)** 1982-2007/Jan 21

[File 570] **Gale Group MARS(R)** 1984-2007/Jan 19

[File 577] **Roanoke Times** 1992-2007/Jan 19

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13

**File 583: This file is no longer updating as of 12-13-2002.*

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Jan 11

[File 624] **McGraw-Hill Publications** 1985-2007/Jan 22

**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

b 4/4
stay
units

Dialog

```
Set     Items   Description
S1         20   SELECT ((ACOUSTIC?(2N)LABORATOR???) AND (SOFTWARE OR COMPUTER?) AND (PATH?
?) AND ((SOUND OR NOISE)(2N)(CONTROL? OR ABATE?))) NOT PY>2000
S2         18   RD  (unique items)
; show files
```

unique

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Jan 15

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jan 15

[File 180] **Federal Register** 1985-2007/Jan 19

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jan 22

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070118UT=20070111

**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 388] **PEDS: Defense Program Summaries** 1999/May

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[File 440] **Current Contents Search(R)** 1990-2007/Jan 23

[File 484] **Periodical Abs Plustext** 1986-2007/Jan W2

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Jan 22

[File 654] **US Pat.Full.** 1976-2007/Jan 18

**File 654: IPCR/8 classification codes now searchable in 2006 records. For information about IC= index changes, see HELP NEWSIPCR.*

Dialog

```
> Set Files all
> Select (auraliz? and (whatif or (what()if) or what-if) and ((desire? ? or goal?
?)(3n)(sound or noise or decibel or level? ?))) not py>2000
Processing
Processing
Processing
Processing
Processing
Processing
No databases have items, of 566 searched.
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b411
sfau
b hits

Dialog

```
Set      Items    Description
S1          12    SELECT (AUDIOPTIMIZATION OR AUDIOOPTIMISATION) NOT PY>2000
S2           2    RD  (unique items)
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[File 2] **INSPEC** 1898-2007/Mar W2

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